03-08-00

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No.	P3001D1
First Inventor or Application Identifier	Manuel Zahariev
Title	Mail Alert System
Express Mail Label No.	EJ745195969US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. [✔] * **Fee Transmittal Form** *(e.g., PTO/SB/17)*
   (Submit an original and a duplicate for fee processing)
2. [✔] **Specification** [Total Pages] **13**
   (preferred arrangement set forth below)
   - Descriptive title of the Invention
   - Cross References to Related Applications
   - Statement Regarding Fed sponsored R & D
   - Reference to Microfiche Appendix
   - Background of the Invention
   - Brief Summary of the Invention
   - Brief Description of the Drawings *(if filed)*
   - Detailed Description
   - Claim(s)
   - Abstract of the Disclosure
3. [✔] **Drawing(s)** *(35 U.S.C. 113)* [Total Sheets] **3**
4. **Oath or Declaration** [Total Pages] **2**
   a. [ ] Newly executed (original or copy)
   b. [✔] Copy from a prior application (37 C.F.R. § 1.63(d))
      (for continuation/divisional with Box 16 completed)
      i. [ ] DELETION OF INVENTOR(S)
         Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

   *** NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).**

5. [ ] Microfiche Computer Program *(Appendix)*
6. Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all necessary)*
   a. [ ] Computer Readable Copy
   b. [ ] Paper Copy (identical to computer copy)
   c. [ ] Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. [ ] Assignment Papers (cover sheet & document(s))
8. [ ] 37 C.F.R.§3.73(b) Statement *(when there is an assignee)* [✔] Power of Attorney
9. [ ] English Translation Document *(if applicable)*
10. [ ] Information Disclosure Statement (IDS)/PTO-1449 [ ] Copies of IDS Citations
11. [ ] Preliminary Amendment
12. [✔] Return Receipt Postcard (MPEP 503) *(Should be specifically itemized)*
13. [ ] * Small Entity Statement(s) (PTO/SB/09-12) [✔] Statement filed in prior application, Status still proper and desired
14. [ ] Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
15. [✔] Other: Check for fees

16. If a CONTINUING APPLICATION, *check appropriate box, and supply the requisite information below and in a preliminary amendment:*

[ ] Continuation [✔] Divisional [ ] Continuation-in-part (CIP) of prior application No: **08 / 673,350**

Prior application information: Examiner **Shah, A.** Group / Art Unit: **2783**

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

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Certificate of Express Mailing

"Express Mail" Mailing Label Number: **EJ745195969US**
Date of Deposit: **03/06/2000**
Ref: Case Docket No.: **P3001D1**
First Named Inventor: **Manuel Zahariev**
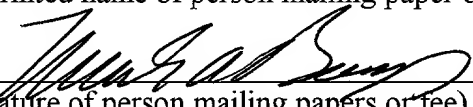Serial Number: **N/A**
Filing Date: **03/06/2000**
Title of Case: **Mail Alert System**

I hereby certify that the attached papers are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and addressed to the Commissioner of Patents and Trademarks, Washington D.C. 20231

1. Utility patent application transmittal.
2. 13 sheets of specification.
3. 3 sheets of drawings.
4. Declaration and Power of Attorney (copy from parent application.
5. Fee transmittal.
6. Duplicate fee transmittal.
7. Check for fees in the amount of 384.00.
8. Certificate of express mailing.
9. Postcard listing contents.

Mark A. Boys

(Typed or printed name of person mailing paper or fee)

(Signature of person mailing papers or fee)

Mail Alert System

by Inventor
Manuel Zahariev

Field of the Invention

The present invention is in the area of network document services, and pertains more particularly to an electronic mail (e-mail) service utilizing machine-intelligent filters to determine forwarding and notification for receipt of e-mail.

Background of the Invention

The public network system over telephone lines known as the Internet, and particularly the portion of the Internet known as the World Wide WEB (WWW) has experienced rapid growth, and with this growth all sorts of electronic document services have been developed and provided to users. E-mail is arguably the most familiar of these services, and is provided by every Internet Service Provider (ISP) and in other ways as well. E-mail services may also be provided on other networks, such as Wide Area Networks (WANs) and the like.

Even though e-mail services have become commonplace and reliable, there are still some limitations. For example, e-mail services typically require the user to actively look up whether he or she has received e-mail, unless the user is permanently connected to the Internet. In some service packages, e-mail is delivered to a mobile device, like a palmtop-computer or a telephone. However costs in such systems are high per message and size, and if the user has no facility to review and veto delivery, he or she may

receive attachments of several dozen kilobytes or even more incurring very high delivery costs. What is clearly needed is a smart filter system that operates firstly to decide, based upon certain criteria set up by the user, if, when e-mail is received, the user is to be notified by pager or similar

5   services, and secondly if and where to forward mail. Such an enhancement in e-mail services allows the user to avoid being disturbed by unimportant messages, as well as to avoid high costs of unsolicited and or unwanted mail reception on expensive wireless systems or other remote systems.

10

Summary of the Invention

In a preferred embodiment, a system for receiving and forwarding e-mail messages for a subscriber is provided. The system comprises a server

15   connected to a network; and a Mail Alert code set resident and operable on the server. The MailAlert code set is adapted to compare characteristics of e-mail messages received for the subscriber to specific message characteristics provided by the subscriber and pre-stored on the server, to send a message to the subscriber when a characteristic match is found, and

20   to execute following instructions from the subscriber for forwarding of the message received for which a match was found. In one embodiment he message sent to the subscriber on finding a characteristic match is sent to a pager carried by the subscriber.

On receiving a page that a matched message has been intercepted,

25   the server running the MailAlert code set waits for instructions from the subscriber. The subscriber may call in, log in by such as name and password, and then select specific forwarding for the intercepted and matched message. Forwarding may be to any or any combination of a number of devices

capable of receiving the e-mail message. The subscriber, for example, may have the message forwarded to a hand-held or notebook computer carried and operated by the subscriber, and also to a postoffice on another server or ISP

5   In various embodiments of the invention facility is thus provided for a subscriber to avoid having long messages sent to a remote device, such as a hand-held computer or notebook computer, and may thereby gain cost control over such message transfers. Another distinct advantage is that the subscriber, in the case of Internet services, becomes once-removed from his

10   own Internet Service Provider (ISP), and can than change providers and e-mail systems, and still receive his e-mail seamlessly, and may have mail delivered to several places or any combination. A user may, for example, simply supply a criteria that all mail be intercepted and held for later instructions, and thereby gain control of delivery points.

15

Brief Description of the Drawing Figures

Fig. 1A is a first of two portions of an example of software, in pseudo code, as it might be used in a preferred embodiment of the present

20   invention.

Fig. 1B is a second portion of an example of software, in pseudo code, as it might be used in a preferred embodiment of the present invention.

Fig. 2 shows a system topology including interconnection of all units in a preferred embodiment of the present invention.

25

Description of the Preferred Embodiments

In a preferred embodiment a server is used, connected to a network such as the Internet as well as to the phone system to perform the required functions of the invention

As can be seen from the Figures and as described below, most of the

5   implementation of embodiments of the present invention is in interconnection of apparatus, and in integration of the apparatus by unique software resident and executed on a server. It will be apparent to those with skill in the art that there are many ways to partition such a system, and both the topology and the software partition can be changed substantially without

10 really changing the resulting function of the complete system. Therefore the following descriptions have to be viewed as only one embodiment among many possible embodiments .

In Figs. 1A and 1B, a rich pseudo code is used to illustrate how the core software is built, with addition of most-used modules. Lines 106

15 through 114 define the program objects. Lines 119 through 158 show a list of concurrent and invoked tasks. In line 106 MailAlert is defined as the principle code routine in the embodiment described. Mail Server described in line 108 could be a basic version of UNIX™ SendMail, a widely used standard mail software.

20 SendMail does receive mail from the Internet, typically using Simple Mail Transfer Protocol(SMTP).

In the embodiment described herein of the present invention, when e-mail is received, a copy is typically forwarded to the customer's normal base address. A copy is also retained on the server, which is then analyzed by the

25 MailFilter code routine on line 110. A match of pre-programmed criteria with mail message characteristics generates an Alert, which on Line 111 is used to generate a page to a paging unit carried by the subscriber. Additionally, each page is complemented with a unique ID stamp for

identification. In line 113 and 114 the subscriber can request either a fax back or a forwarding of the specific message by phone using the id stamp from line 112. That could happen in several ways. In one instance, the user would call an operator, identify himself, tell the operator the ID stamp of the

5 requested message, and tell also the means, fax, e-mail or similar, and location of the forwarding, by e-mail address, fax number or similar. In the other instance, he would call into a voice-response system, identify himself by either touching or speaking his customer id, then entering the message ID stamp, and then selecting one of several pre-selected destinations, or enter a

10 method and an address again by means of touching or speaking.

Procedure MailAlert on lines 119 through 127 basically repeats all basic steps indefinitely. In line 121 are the tasks of Receive, Forward and Store Mail, which can be handled by standard packages such as SendMail of UNIX™. Other similar products can be substituted, or modified or adapted

15 to perform in the desired manner.

In line 133, a Filter Mail procedure filters new incoming mail, then looks up the customer for whom it was received in the customer database, gets stored customer records including pre-stored e-mail filtering criteria, and checks for a match, storing relevant results in the alert table.

20 In line 138 the task SendAlerts is continuously taking record by record from the AlertTable and emptying into paging systems, according to instructions stored in that record by FilterMail from the customer record.

The task MailAlert Auto Attendant on lines 144-149 takes customer calls, and based on customer ID and Alert ID then does either a fax or mail

25 forward of the relevant messages. Optionally, attachments can be included to be expanded or dropped.

The task MailAlert Fax Back Server is then used to actually work off the queue of faxes to be sent to customers.

Fig. 2 shows how a typical topology might look in a preferred

embodiment of the present invention. A mail sender can be sending e-mail

from workstation or PC 210, via Internet connection 220 to Internet Service

Provider (ISP) 202. Although in this example the connection is through the

5   well-known Internet, practice of the present invention is not limited to use

with the Internet. The MailAlert system of the invention may be practiced

wherever e-mail is used, regardless aof the nature of the Network. The

Internet is exemplary. The mail is then forwarded via link 221 to

"backbone" 201, and on to MailAlert ISP 203 via connection 222 to the

10   backbone. Inside MailAlert ISP the mail is received by Server 215 via

connection 223 from the subnet 203. The MailAlert software then forwards

a copy to the subscriber (If we call the same person both subscriber and

customer, confusion is sure to result. on workstation 212, via connection

227, the subscriber's ISP 204, connection 226, backbone 201, connection

15   222, MailAlert ISP 203 and connection 223. At the same time, if a match

between criteria and message characteristics is found, the system alerts via

telephone and paging network 232 the subscriber's pager 217. The

subscriber then can call in and have the message forwarded to fax 216 via

telephone network connection 231, or he can have it forwarded to an

20   alternate mail address, in this example is represented by pocket organizer

211, which has a wireless link to ISP 204. That (what is "that") then

connects in normal manner from server 215.

If the subscriber has Internet service from the same ISP as

MailAlert, he could connect like workstation 213 via connection 225.

25   The here-presented system provides an ability to selectively filter

information based on e-mail, and to notify a subscriber of availability of such

selected information, giving the subscriber the subscriber an option to have

the message forwarded either by e-mail or fax to a specific location. For

example, if a subscriber expects a document as an attachment by e-mail, but is only interested in comments contained in the copy (body) of the message, he may setup a filter as following: Filter1:Sender= XYZ:Subject=ABC:Attachment=Yes; . This Filter would tell the filter

5 software to look for matches in this subscriber's incoming mail. Once a message is received that matches the criteria, the subscriber will receive a page that could look like : MsgID=1234, Filter1. The subscriber then can call the Auto Attendant and identify himself with Customer ID and password, upon which he will be prompted to enter the message ID. Next

10 he can select means of delivery, like e-mail or fax, and then enter numbers or addresses, or select one of a limited set of preprogrammed numbers or addresses.

After the subscriber makes all of the needed selections and entries, the system will immediately start to process his request, and within seconds

15 delivery should begin. Alternatively, instead of using a pager, many models of new digital phones have paging facilities, so the message could include the call back number, which can be dialed in single button access. In another embodiment two-way pagers may be used to allow selecting immediate forwarding based on preprogrammed numbers or addresses.

20 In yet another embodiment, mail messages or parts of mail messages meeting certain criteria can be included with the notification message.

It will be apparent to those with skill in the art that there are many alterations that may be made in the embodiments described herein without departing from the spirit and scope of the invention. For example,

25 programming of the filter criteria can be achieved in any one of several ways, all of which should be familiar to those with skill in the art. Programming of all of the several functional modules of the Mail Alert System according to embodiments of the invention can be done in many different ways, according

to individual preferences of programmers, while falling within the scope of
the invention. Moreover, there are alternatives that may be taken in
hardware connection, also while falling within the spirit and scope of the
invention. The invention, therefore, is defined by the scope of the following

5   claims.

What is claimed is:

10   1. A system for receiving and forwarding e-mail messages for a subscriber,
the system comprising:
         a server connected to a network; and
         a Mail Alert code set resident and operable on the server;
         wherein the MailAlert code set is adapted to compare characteristics
15   of e-mail messages received for the subscriber to specific message
characteristics provided by the subscriber and pre-stored on the server, to
alert the subscriber when a characteristic match is found, and to execute
following instructions from the subscriber for forwarding of the message
received for which a match was found.

20

2. A system as in claim 1 wherein the subscriber is alerted on finding a
characteristic match by sending a page to a paging device carried by the
subscriber.

25   3. A system as in claim 1 further comprising a human interface whereby an
operator causes received and matched mail to be forwarded to mail
addresses provided by the subscriber responding to the alert by conversing
with the operator via telephone.

4. A system as in claim 1 further comprising a telephone menu system whereby a subscriber, responding to an alert, may log in, identify messages, select from recorded options, and input information for forwarding of

5   identified messages.

5. An e-mail server comprising:

an e-mail system adapted for receiving and forwarding e-mail; and

a Mail Alert system adapted to compare characteristics of e-mail

10   messages received for the subscriber to specific message characteristics

provided by the subscriber and pre-stored on the server, to alert the

subscriber when a characteristic match is found, and to execute following

instructions from the subscriber for forwarding of the message received for

which a match was found.

15

6. An e-mail server as in claim 5 wherein the subscriber is alerted on finding

a characteristic match by sending a page to a paging device carried by the

subscriber.

20

7. An e-mail server as in claim 5 further comprising a human interface

whereby an operator causes received and matched mail to be forwarded to

mail addresses provided by the subscriber responding to the alert by

conversing with the operator via telephone.

25

8. An e-mail server as in claim 5 further comprising a telephone menu

system whereby a subscriber, responding to an alert, may log in, identify

messages, select from recorded options, and input information for forwarding of identified messages.

9. A method for receiving, filtering, and routing e-mail messages, comprising steps of:

    (a) prerecording on a mail server characteristics for messages to be routed, the characteristics provided by a subscriber;

    (b) receiving messages addressed to the subscriber at the mail server;

    (c) comparing characteristics of messages received to the prerecorded characteristics provided by the subscriber;

    (d) identifying and storing on the mail server messages received for the subscriber for which a match is found to the prerecorded characteristics;

    (e) alerting the subscriber to the receipt of one or more messages for which a characteristic match is found; and

    (f) forwarding the stored messages for which a match is found to destinations provided by the subscriber in response to the alert.

10. The method of claim 9 wherein, in the alerting step, a page is sent to a pager carried by the subscriber to alert the subscriber to the receipt of the one or more messages.

11. The method of claim 9 wherein, in the forwarding step, an operator enters destinations provided by the subscriber by telephone conversation in response to the alert, and causes the one or more messages to be forwarded.

12. The method of claim 9 wherein, in the forwarding step, a subscriber, in response to the alert, interacts with a phone menu system, identifying messages and selecting destinations for forwarding.

13. A machine-intelligent agent for processing e-mail messages, comprising:

a stored list of message characteristics provided by a subscriber;

a receiver adapted for receiving e-mail messages and ascertaining

5   message characteristics of the received messages;

a comparator adapted for comparing characteristics of received

messages with stored characteristics, and tagging those messages wherein

the characteristics match; and

a save facility adapted for storing matched messages against future

10   distribution instructions.

14. The machine-intelligent agent of claim 13 further comprising an alert

mechanism for alerting a subscriber to the receipt of messages having

characteristics matching the stored characteristics.

15

15. The machine-intelligent agent of claim 14 wherein the alert mechanism

comprises a page transmitter adapted for transmitting a page signal to a

pager carried by the subscriber.

20   16. The machine-intelligent agent of claim 14 further comprising a

forwarding facility for retrieving and forwarding stored messages to

destinations provided by the subscriber in response to the alert.

17. The machine-intelligent agent of claim 16 wherein the forwarding

25   facility comprises a human interface for identifying messages to be retrieved,

retrieving the identified messages, and forwarding the identified messages to

destinations provided to an operator by the subscriber.

18. The machine-intelligent agent of claim 16 wherein the forwarding facility comprises an automated telephone menu system adapted for providing choices to a subscriber connecting to the forwarding facility by telephone, wherein the subscriber calling in may identify stored messages to be forwarded, and the agent will retrieve and forward the identified messages to destinations provided by the subscriber callin in response to the alert.

Abstract of the Disclosure

An e-mail system implemented on a server having a network connection receives and forwards e-mail messages based on subscriber-

5   supplied criteria. When a message is received addressed to the subscriber, characteristics of the message, such as existence of and size of attachments, are compared to characteristics previously supplied by the subscriber. If a match is found, the subscriber is notified, such as by a page to a pager carried by the subscriber, of the message and the nature of the match..

10   Facility is provided at the server for the subscriber to then call the server, log on, and provide instructions for forwarding the matched message. Forwarding may be to such as a hand-held device or a notebook computer operated by the subscriber, or to a mailbox or mailboxes on other servers, or any combination. A subscriber is then in control of points of delivery of

15   incoming e-mail messages.

100
101   **Bold** = objects
102   *Italic* = actions (methods, code members)
103
104   **Core**
105
106   MailAlert ISP 203 is the provider of the **MailAlert (software on server 215)** service.
107   **MailAlert** relies on a **Mail Server (software on server 215)** package for **Mail** processing.
108   The **Mail Server** *receives* **Mail** for **Customers (e.g. message sent by 210)** and *forwards* it to their permanent mail address (e.g. Workstation 212 on ISP2 204), also *stores* a **Mail Copy (on server 215)**.
109   An **Alert (e.g. data content of pager message)** is a basic information provided by **MailAlert** to **Customers (e.g. using pager 217 via paging network 232)**.
110   The **Mail Filter (also software on server 215)** *analyzes* the **Mail Copy (content of e-mail message)**, looking for **Interest Criteria (in database on server 215)**. When a *match is found*, an **Alert** is generated.
111   **Alerts** are records in an **Alert Table (also database on server 215)** . For each **Alert Record**, a **Pager Message** will be generated using **Sends Alerts (software on server 215)** .
112   Every **Alert** is stamped with a unique identifier for the **Customer** receiving it.
113   A **Customer**, using the **Alert** identifier can *request* from a MailAlert **Auto Attendant** the whole contents of the **Mail Copy** to be faxed to them (on Fax machine 216) or forwarding to a special e-mail adress (e.g. mobile device 211) . The **MailAlert Auto Attendant** will *add* a **Fax Back Record** into a **Fax Back List (database on server 215)**.
114   For each **Fax Back Record**, a **Fax Message** will be generated and send using a **Fax Back Server (software on server 215)**.
115
116
117   **Procedures**
118
119   Concurrent tasks in service <u>**MailAlert**</u> are
120   {
121   <u>Receive, Forward Mail; Store Mail Copies</u>
122   <u>Filter Mail Copies</u>
123   <u>Send Alerts</u>
124   <u>MailAlert Auto Attendant</u>
125   <u>MailAlert Fax Back Server</u>
126   <u>MailAlert Mail Redirector</u>
127   }
128
129
130   task <u>Receive, Forward Mail; Store Mail Copies</u> is
131   provided by third party Mail Server package for release 1.0
132
133   task <u>Filter Mail Copies</u> is
134   forever
135   Wait For New MailCopy

Fig. 1a

```
136              MailCopy :: GetCustomer() :: FindMatchAlertCriteria( MailCopy,
        AlertTable )
137
138     task Send Alerts is
139             forever
140                     if not AlertTable :: isEmpty() then
141                             AlertTable :: currentRecord :: SendAlert()
142                             AlertTable :: currentRecord :: delete
143
144     task MailAlert Auto Attendant is
145             forever
146                     Wait For Customer Call
147                     Request Parameters( Customer Id, Alert Id,Fax/Mail )
148                     if Fax then FaxBackList :: AddFaxBackRecord( CustomerId, AlertId )
149                     if Mail then Forward (CustomerId, AlertId, AltMailAdd )
150
151
152
153
154

155     task MailAlert Fax Back Server is
156             forever
157                     if not FaxBackList :: isEmpty() then
158                             FaxBackList :: FirstRecord() :: GenerateFax()
```
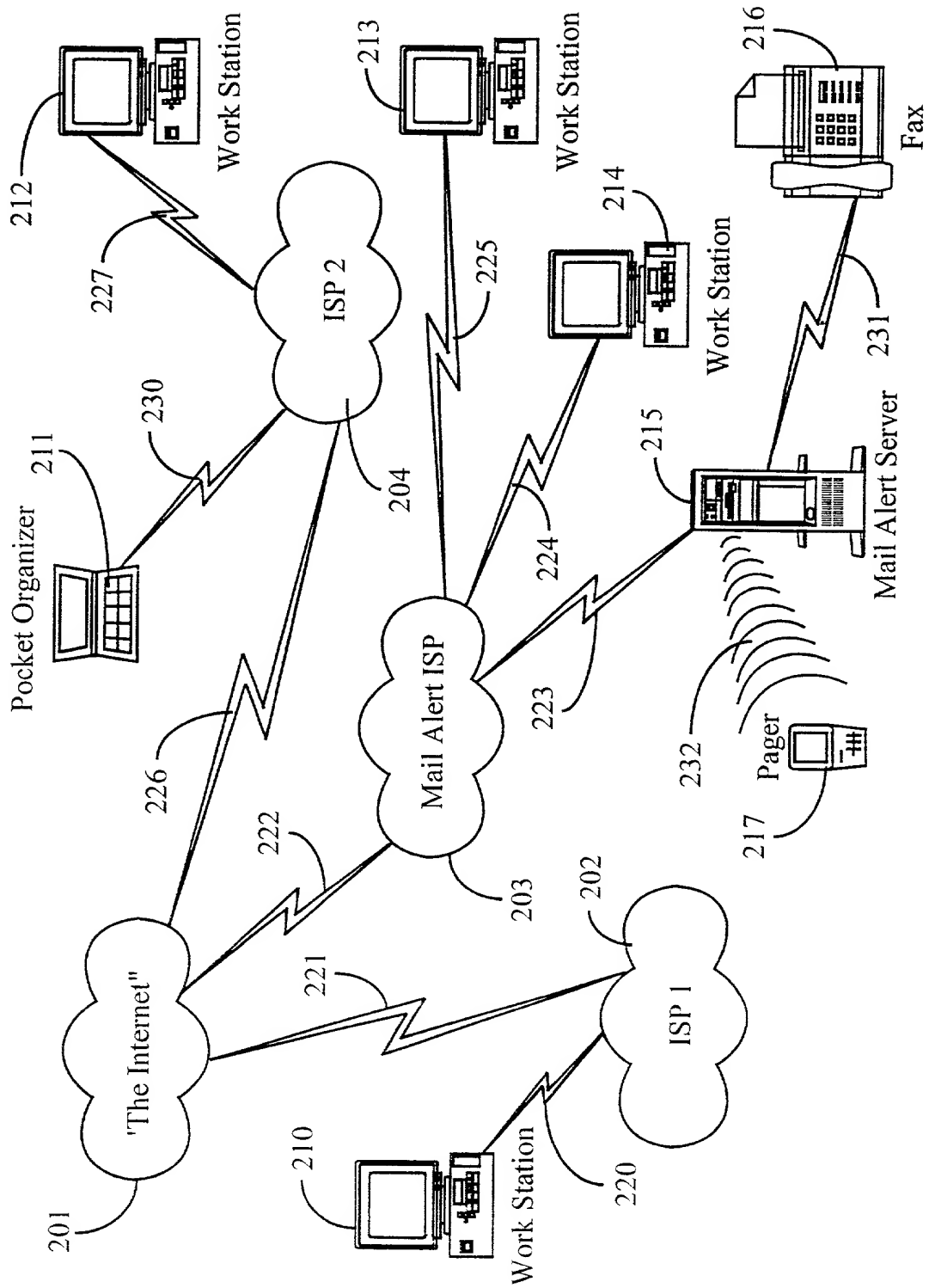
Fig. 1b

Fig. 2

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY DOCKET NO.

P3001

As a below named inventor, I hereby declare that:
My residence, post office address and citizenship are as stated below next to my name

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Mail Alert System

the specification of which (check one) **X** is attached hereto.

_____ was filed on _____

_____ Application Serial No. _____

_____ and was amended on _____
(if applicable)

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, s 1.56 (a). In the case that the present application is a continuation-in-part application, I further acknowledge the duty to disclose material information as defined in 37 CFR s 1.56(a) which became available between the filing date of the prior application and the filing date of the present application.

I hereby claim foreign priority benefits under Title 35, United States Code s119 of any foreign applications for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

(Number)	(Country)	(Day/Month/Year Filed)
(Number)	(Country)	(Day/Month/Year Filed)

I hereby claim the benefit under Title 35, United States Code, s120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, s112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, s156(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.
(List name and registration number)

Donald R. Boys
Reg. No. 35,074

Joseph H. Smith
Reg. No. 30,328

SEND CORRESPONDENCE TO:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

MANUEL ZAHARIEV

Full name of sole or first inventor

Inventor's signature _____ Dated: JUNE 26, 1996

Residence   102-6688 BURLINGTON AVE., BURNABY, B.C., CANADA   Citizenship   ROMANIAN

Post Office Address _____ Same _____

Full name of 2nd joint inventor, if any _____

2nd inventor's signature: _____ Dated: _____

Residence _____ Citizenship _____

Post Office Address _____

Full name of 3rd joint inventor, if any _____

3rd inventor's signature _____ Dated: _____

Residence _____ Citizenship _____

Post Office Address _____

Full name of 4th joint inventor, if any _____

4th inventor's signature _____ Dated: _____

Residence _____ Citizenship _____

Post Office Address _____

Full name of 5th joint inventor, if any _____

5th inventor's signature _____ Dated: _____

Residence _____ Citizenship _____

Post Office Address _____

Full name of 6th joint inventor, if any _____

6th inventor's signature _____ Dated: _____

Residence _____ Citizenship _____

Post Office Address _____

Full name of 7th joint inventor, if any _____

7th inventor's signature _____ Dated: _____

Residence _____ Citizenship _____

Post Office Address _____

Declaration & Power of Attorney - Page 2